(RcL71-697 Pub.605)	FORM 1-1	1
		:
Practitioner's Do	cket No. RJC-1	PATENT
COMBIN	ED DECLARATION AND POWER O	F ATTORNEY
(ORIGINAL, DESIG	GN, NATIONAL STAGE OF PCT, SUPPLE CONTINUATION OR C-I-P)	MENTAL, DIVISIONAL,
As a below named	inventor, I hereby declare that:	
	TYPE OF DECLARATION	·
This declaration is of	the following type:	
	(check one applicable item below)	
💢 original.		
design.		
supplement	tal.	
NOTE: If the declaration continuation-in-pa	n is for an International Application being filed a art application, do <u>not</u> check next item; check appro	as a divisional, continuation or
u national sta	ige of PCT.	
NOTE: If one of the follow CONTINUATION (wing 3 items apply, then complete and also attach Al OR C-I-P.	DDED PAGES FOR DIVISIONAL,

INVENTORSHIP IDENTIFICATION

☐ divisional. ☐ continuation.

☐ continuation-in-part (C-I-P).

WARNING: If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

OPTICAL - /	IN TENNA	ARRAY	FOR HARMONIC	GENERATION	14124 216
AND	SIPHAL	Anplie	FICA TION		, /VII X/ 100

(Declaration and Power of Attorney [1-1]-page 1 of 7)

SPECIFICATION IDENTIFICATION

ne spec	emeation of which.	
	(complete (a), (b) or (c))
(a) (<u>C</u>	is attached hereto.	
NOTE:	"The following combinations of information supplie filing date with a specification are acceptable as min with any one of the items below will be accepted 37 CFR 1.63:	imums for identifying a specification and compliance
	"(1) name of inventor(s), and reference to the cath or declaration at the time of exon filing;	to an attached specification which is both attached recution and submitted with the oath or declaration
	"(2) name of inventor(s), and attorney do or	cket number which was on the specification as filed;
	"(3) name of inventor(s), and title which	was on the specification as filed."
	Notice of July 13, 1995 (1177 O.G. 60)	•
(b) [was filed on	4
(5)	or 🗆	, as b condition of /
	and was amended on	(if applicable).
NOTE:	Amendments filed after the original papers are denot accorded a filing date by being referred to in the are those filed with the application papers or, in amendments claiming matter not encompassed in 37 CFR 1.67.	declaration. Accordingly, the amendments involved the case of a supplemental declaration, are those
NOTE:	"The following combinations of information supplie are acceptable as minimums for identifying a spec below will be accepted as complying with the iden	ification and compliance with any one of the items ntification requirement of 37 CFR 1.63:
	"(1) name of inventor(s), and application number; e.g.,08/123,456);	number (consisting of the series code and the serial
	"(2) name of inventor(s), serial number of	and filing date;
	"(3) name of inventor(s) and attorney do	ket number which was on the specification as filed;
	. 'f(4) name of inventor(s), title which was	on the specification as filed and filing date;
		s on the specification as filed and reference to an ad to the oath or declaration at the time of execution n; or
	a cover letter accurately identifying the a application number (consisting of the serie serial number and filing date. Absent any s	on the specification as filed and accompanied by oplication for which it was intended by either the s code and the serial number; e.g.,08/123,456), or tatement(s) to the contrary, it will be presumed that lication which the inventor(s) executed by signing
٠.	Notice of July 13, 1995 (1177 O.G. 60).	•
(c) 🗆		PCT International Application No.
	amended under PCT Article 19 on	
		,,,
	•	
	•	•
	(Declar	aration and Power of Attorney [1-1]—page 2 of 7)
	•	• •
	• •	

(Rc171-6/97 Pub 605)

ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56,

,		(also check the following items, if desired)
	wh	d which is material to the examination of this application, namely, information ere there is a substantial likelihood that a reasonable Examiner would conside apportant in deciding whether to allow the application to issue as a patent
		in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 CFR 1.98.

PRIORITY CLAIM (35 U.S.C. § 119(a)-(d))

I hereby claim foreign priority benefits under Title 35, United States Code, §§ 119(a)–(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

(complete (d) or (e))

(d)		no such applications have been filed.
(e)		such applications have been filed as follows.
NOTE.	: W	here item (c) is entered above and the International Application which designated the U.S. itself claimed
	ום	nonty check item (e), enter the details below and make the priority claim.

PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY UNDER 37	
			☐ YES	№ □
			☐ YES	NO 🗆
		^	☐ YES	NO 🗆
			☐ YES	ио □
			☐ YES	NO 🗆
CLAIM FOR	BENEFIT OF PRIOR U.S		PPLICAT	10N(S)

(34 U.S.C. § 119(e))

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

PROVISIONAL APPLICATION NUMBER.	FILING DATE
<u>60 , 036, 085</u>	JANUARY 16, 1997
/	
/	· .

CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S) UNDER 35 U.S.C. 120

☐ The claim for the benefit of any such applications are set forth in the attached ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN PART (C-I-P) APPLICATION.

(Declaration and Power of Attorney [1-1]-page 4 of 7)

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NOTE:	If the applicat the basis for divisional, or AND POWER of the prior U	his applica continuatio OF ATTO	ation ente n-in-part RNEY FC	ering the U , then also OR DIVISIO	nited S comple NAL, C	tates as e ete ADDE ONTINU	(1) the ED PA ATION	national GES TO	stage, or COMBIN	· (2) a cont ED DECLA	inuation, .RATION
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	C	NEH	J. 1	NEEGAN	J	REG	Ħ	1964	3		
		(ch	eck the	e followii	ng itei	m, if ap	plica	able)		· :	
(I hereby vided be Patent a	low to p	prosecu	ute this a	applic	ation a	nd to	transa			
(Attached of the all represen	ove-nar									
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DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)

NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other documents.

Full name of sole or firs	t Inventor	
RUDERT	JOSKTH /	CROWLEY
(GIVEN NAME)	MIDDLE (NITIAL OR NAME)	FAMILY (OR LAST NAME)
Inventor's signature	May many	· · · · · · · · · · · · · · · · · · ·
Date <u>DKCKMBEK 10, 199</u>	2 Country of Citizenship	. U.S.A
Residence <u>64 P</u> C	JICITAN CANE	
Post Office Address	SCIDBURY MA 01776	
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	and the same of the same of	
Full name of second join	nt inventor if any	
. dii ildiile oi scolla joil		•
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
nventor's signature	*****	
Date	Country of Citizenship	
Residence		
		_
		······································
*		
full name of third joint in	entor, if any	•
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
nventor's signature	(MIDDLE INITIAL OR NAME)	FAMILE (OR DAST NAME)
	Country of Citizenship _	
Residence		, , , , , , , , , , , , , , , , , , , ,
		
Post Office Address		

FORM II

(Pal 7) 6:07 Pub 4

	(check proper box(es) for any of the following added page(s) that form a part of this declaration)
	Signature for fourth and subsequent joint inventors. Number of pages added
	• • •
	Signature by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. <i>Number of pages added</i>
	• • •
	Signature for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. Number of pages added
	• • •
	Added page for signature by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time. (37 CFR 1.47)
	Added pages to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (C-I-P) application.
	□ Number of pages added
	Authorization of practitioner(s) to accept and follow instructions from representative.
	• •
th	(if no further pages form a part of this Declaration, en end this Declaration with this page and check the following item)
	This declaration ends with this page.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

	· .	
Applicant	Robert J. Crowley	
Serial No.:	60/036,085	· ·
Filed:	<u>January 16, 1997</u>	. :
For:	OPTICAL ANTENNA ARRAY F GENERATION, MIXING, AND	
	FIED STATEMENT (DECLARATION) C TATUS (37 CFR 1.9(f) and 1.27(b))-INDE	
 9(c) for purposes the Patent and Tra 	inventor, I hereby declare that I qualify as an s of paying reduced fees under Section 41(a) and demark Office with regard to the invention ent NERATION, MIXING, AND SIGNAL AMPI	nd (b) of Title 35, United States Code, to itled OPTICAL ANTENNA FOR
\boxtimes	the specification filed herewith.	
\boxtimes	application serial no. 60/036,085, filed Janua	ry 16, 1997.
	patent no, issued	
assign, grant, conv Independent invent	I, granted, conveyed or licensed and am under ey or license, any rights in the invention to any or under 37 CFR 1.9(c) if that person had mad as a small business concern under 37 CFR 1.9	person who could not be classified as an le the invention, or to any concern which
Each person, conce an obligation unde pelow:	em or organization to which I have assigned, g r contract or law to assign, grant, convey, or li	ranted, conveyed, or licensed or am under cense any rights in the invention is listed
\boxtimes	no such person, concern, or organization	
. 🗆 .	persons, concerns, or organizations listed belo	**************************************
· NOTE:	Separate verified statements are required for each named person invention averring to their status as small entities (37 CFR 1.27	concern or organization having rights to the
		•

Verified Statement (Declaration) Claiming Small Entity State Independent Inventor Page 2 NAME ADDRESS	tus (37 CFR 1.9(f) and 1.27(b))
☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN	☐ NONPROFIT ORGANIZATION
NAME ADDRESS	
☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN	☐ NONPROFIT ORGANIZATION
I acknowledge the duty to file, in this application or paresulting in loss of entitlement to small entity status priearliest of the issue fee for any maintenance fee due after business entity is no longer appropriate. (37 CFR 1.28)	or to paying, or at the time of paying, the er the date on which status as a small
I hereby declare that all statements made herein of my statements made on information and belief are believed statements were made with the knowledge that willful punishable by fine or imprisonment, or both, under Sec Code, and that such willful false statements may jeopar patent issuing thereon, or any patent to which this verification.	to be true; and further that these false statements and the like so made are tion 1001 of Title 18 of the United States dize the validity of the application, any
Robert J. Crowley Tame Sole of Inventor Signature of Inventor	Delmbe 10 1997
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